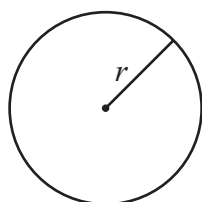


New England Common Assessment Program

Mathematics Reference Sheet – Grade 8

Use the information below as needed to answer questions on the mathematics test.

Circle

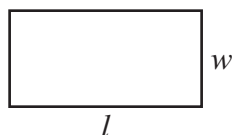


$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$

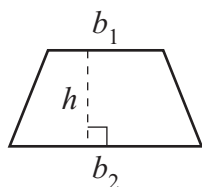
$$\pi \approx 3.14$$

Rectangle



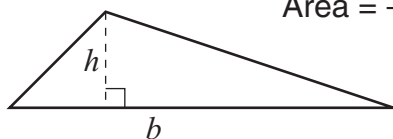
$$\text{Area} = lw$$

Trapezoid



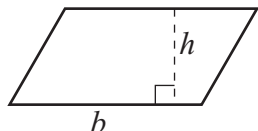
$$\text{Area} = \frac{1}{2} h(b_1 + b_2)$$

Triangle



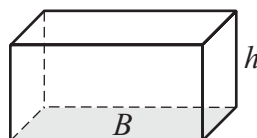
$$\text{Area} = \frac{1}{2} bh$$

Parallelogram



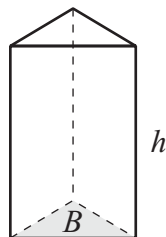
$$\text{Area} = bh$$

Rectangular Prism



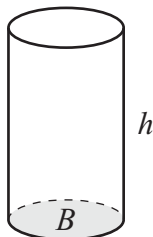
$$\begin{aligned}\text{Volume} &= \text{area of the base} \cdot \text{height} \\ &= Bh\end{aligned}$$

Triangular Prism



$$\begin{aligned}\text{Volume} &= \text{area of the base} \cdot \text{height} \\ &= Bh\end{aligned}$$

Cylinder



$$\begin{aligned}\text{Volume} &= \text{area of the base} \cdot \text{height} \\ &= Bh\end{aligned}$$

Mean: The mean of a data set is the sum of all the values divided by the number of values.

Median: The median of a data set is the middle value or average of the two middle values when the values are arranged in numerical order.

Mode: The mode of a data set is the value that occurs most often.